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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,482 04/07/2004		Paul J. Farrell	LUD 5903 (10404038)	7394
24972	7590 10/20/2005		EXAMINER	
FULBRIGHT & JAWORSKI, LLP			YAO, LEI	
666 FIFTH AVE NEW YORK, NY 10103-3198			ART UNIT	PAPER NUMBER
			1642	
			DATE MAILED: 10/20/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summan	10/820,482	FARRELL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Lei Yao, Ph.D.	1642				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period versillure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•					
1)⊠ Responsive to communication(s) filed on <u>01 M</u>	av 0112					
	action is non-final.					
3) Since this application is in condition for allowar	1	secution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1,2,4,6-11,13,15,17,18 and 20-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.		•				
8) Claim(s) <u>1-2,4, 6-11,13,15,17-18,20-25</u> are sub	oject to restriction and/or election	requirement.				
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Da 5) Notice of Informal P	ate atent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	,				

Art Unit: 1642

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1, 2 and 4, drawn to a method for determining susceptibility of a cancer patient to chemotherapy comprising determining if cancer cell of the patient express wild type p53 with arginine or proline at position 72, wherein indicative of poor susceptibility to chemotherapy,
 classified in class 435 subclass 7.23 and 6.
- II. Claims 6-9, drawn to a method for improving susceptibility of a subject to chemotherapy wherein said subject suffers from cancer, and whose cancer cells express wild type p53 with proline at position 72, comprising **administering to said subject** an amount of wild type p53 with arginine at position 72, classified in class 514, subclass 2 and class 424, subclass 184.1.
- III. Claims 10-11, 13, and 15, drawn to a method for determining susceptibility of a cancer patient to chemotherapy comprising **determining if** cancer cells of said patient expresses p73 and mutated form of p53, wherein **expression of both p73 and a mutated form of p53** indicative of decreased susceptibility to chemotherapy, classified in class 435, subclass 7.23 and 6.
- IV. Claims 17-18, 20-21, drawn to a method for reducing drug resistance in a cancer patient, whose cancer cells express p73 and a mutated for of p53 comprising **administering to the patient** an inhibitor of **mutated p53-p73 interaction** in an amount sufficient to inhibit the interaction, classified in class 514, subclass 2, 44 and class 424, subclass 184.1.
- V. Claims 22, drawn to a method for screening a compound for cancer causing or cancer inhibiting properties, comprising contacting a cell which expressed a mutated form of wild type p53 with arginine at position 72 or proline at position 72, determining impact of said compound on apoptosis of said cell, and comparing it to apoptosis of a cell expressing the mutant, classified in class 435, subclass 7.23.
- VI. Claims 23-25, drawn to a method for determining susceptibility to chemotherapy comprising assaying a sample of cells from a patient for expression of wild type p53 with arginine at position

72 and a mutation at position 46, wherein the chemotherapy comprise **administration of** an apoptosis inducing agent, classified in class 424, subclass 278.1.

The inventions are distinct, each from the other because of the following reasons:

Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01).

The methods of Group I-VI differ in the method objectives, method steps and parameters and in the reagents used. The instant specification does not disclose these methods would be used together. The invention groups I-IV and VI are directed to a method of determining or improving susceptibility of cancer patient to chemotherapy or reducing drug resistance in a cancer patient. Group V is directed to a method of screening a compound for cancer causing or inhibiting properties. Each invention performs this function using a structurally and functionally divergent material and each invention requires different patient populations. The methodology and materials necessary for one group differ significantly from the other groups.

The distinct method steps and products of invention Groups have a separate status in the art as shown by their different classifications and require separate searches. Searching all the invention groups together would impose serious search burden.

Because these inventions are distinct for the reasons given above, have acquired a separate status in the art as shown by their different classification, and the search required for each group is not required for the other groups because each group requires a different non-patent literature search due to each group comprising different products and/or method steps, restriction for examination purposes as indicated is proper.

Election of Species

This application contains claims directed to the following patentably distinct species of the claimed invention:

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a. PCR

- b. Immunoassay
- c. RNAi
- d. antisense molecule
- e. antibody

In the event that applicant elects invention I or III applicant is required under 35 U.S.C. 121 to elect a single disclosed species, either a. or b. for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

In the event that applicant elects invention IV, applicant is required under 35 U.S.C. 121 to elect a single disclosed species of c, d, or e. for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See M.P.E.P. 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lei Yao, Ph.D. whose telephone number is 571-272-3112. The examiner can normally be reached on 8am-4.30pm Monday to Friday.

Any inquiry of a general nature, matching or file papers or relating to the status of this application or proceeding should be directed to Kim Downing for Art Unit 1642 whose telephone number is 571-272-0521

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lei Yao, Ph.D. Examiner Art Unit 1642

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